

# *[FIELD AND FACTORY TESTABLE IMAGING DETECTOR]*

## Abstract

An imaging assembly is provided including an x-ray source and a controller in communication with the x-ray source. A detector assembly is in communication with the controller, and includes a photodetector array in communication with the controller. A scintillator assembly is positioned between the photodetector array and the x-ray source. A collimator assembly is positioned in between the scintillator assembly and the x-ray source. An electroluminescent panel is positioned between the collimator assembly and the scintillator assembly. The electroluminescent panel is in communication with the controller and has an active condition where the electroluminescent panel generates radiation eliciting a response from the detector array.